



Learn with Palla

The 45-Day Automation Mastery Plan

Playwright + TypeScript · Selenium + Java · AI-powered testing

What's inside

Two complete, job-ready learning paths - just 45 minutes a day for 45 days, a live Q&A every 3rd day (15 sessions), and a hands-on capstone project.

Playwright + TypeScript 9 phases · 22h+ lessons · Playwright MCP & AI test agents

Selenium + Java 9 phases · 16h+ lessons · TestNG, Page Object Model & AI toolkit

BONUS: 1 month of Claude Pro - free for every enrolled student.



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How the 45-day plan works

Pick one track and commit to **45 focused minutes a day** - roughly 30 minutes of guided lessons and 15 minutes of hands-on practice. A **live Q&A every 3rd day** (15 in total) keeps you unblocked, and you finish with a real portfolio project. Every enrolled student also gets **1 month of Claude Pro free** to learn AI-assisted testing from day one.

PLAYWRIGHT + TYPESCRIPT

45 days · 45 min/day · 15 live Q&A · 9 phases · 22h+ lessons

BONUS - 1 month of Claude Pro, free. Use it with Playwright MCP and the AI Test Agents to plan, generate and self-heal tests.

Phase 01 - Kickoff & Setup Days 1-2

Get the big picture and a fully working dev environment.

Day 1 **Welcome & the Playwright big picture**
Course intro & format, quick automation demo, overview & architecture, why it beats legacy tools.

Day 2 **Set up your machine**
Node.js & VS Code (Win/macOS), first Node "Hello World", Playwright extensions, folder & naming conventions.

Phase 02 - JavaScript / TypeScript Essentials Days 3-14

The language foundation every automation framework is built on.

Day 3 **Readiness check + variables**
JS/TS readiness self-check, comments, variable definition, syntax & rules.

Live Q&A 1 - Setup & JavaScript basics - clear blockers, review your environment.

Day 4 **Variables & scope**
var / let / const, variable scoping, best practices.

Day 5 **Data types I**
Intro, literals, the typeof operator.

Day 6 **Data types II**
Different forms, truthy / falsy / nullish, type conversion.

Live Q&A 2 - Variables & data types - mini coding challenge.

Day 7 **Operators I**
Assignment, arithmetic and comparison operators.

Day 8 **Operators II**
Logical AND / OR / NOT, default values, ternary operator.

Day 9 **Conditionals & switch**

if / else (6 real use-cases), nested conditions, switch.

[Live Q&A 3 - Operators & conditionals - logic practice.](#)

Day 10 **Loops**

for, for-with-array, break, forEach, while, for-in / for-of.

Day 11 **Strings I**

String forms, formatting, comparing, slice().

Day 12 **Strings II**

replace / replaceAll, split, indexOf, escaping.

[Live Q&A 4 - Loops & strings - string-manipulation exercises.](#)

Day 13 **Functions I**

Named & anonymous functions, parameters.

Day 14 **Functions II**

Rest params, return, self-invoking, arrow functions + JS exercises.

Phase 03 - Playwright Foundations Days 15-18

Install Playwright, wire up Git, and learn the core test objects.

Day 15 **Install Playwright & first test**

Install, run the generated test, project setup, package.json scripts.

[Live Q&A 5 - Functions & your first Playwright run.](#)

Day 16 **Git & GitHub workflow**

Git install & basics, GitHub repo, local setup, commit & push.

Day 17 **First spec & the test runner**

First spec file, common errors & fixes, test runner, the test() function.

Day 18 **Core Playwright objects**

Page fixtures, the locator object, expect() assertions, the await keyword.

[Live Q&A 6 - Playwright core & the test runner.](#)

Phase 04 - Codegen, Locators & Interactions Days 19-23

Record tests, master locators, and automate every kind of element.

Day 19 **Codegen mastery**

Codegen overview & benefits, CLI usage, record a login spec, capture flows.

Day 20 **Locators deep dive**
Locator strategies, pick-locator, resilient-selector best practices.

Day 21 **Interacting with elements I**
Form filling, buttons & links, text fields.

Live Q&A 7 - Codegen, locators & interactions - record-along clinic.

Day 22 **Interacting with elements II**
Dropdowns, radio buttons & checkboxes.

Day 23 **Lists & full flows**
Iterate over element lists, complete a checkout flow end-to-end.

Phase 05 - Debugging, Reporting & Config Days 24-28

Find failures fast, produce great reports, and master configuration.

Day 24 **Debugging toolkit**
Test Explorer, UI mode, CLI debug mode, the Trace Viewer.

Live Q&A 8 - Debugging - bring your broken tests.

Day 25 **Allure reporting**
Allure setup, Java install, configuration, rich HTML reports.

Day 26 **Test config & fixtures**
playwright.config deep dive, building custom fixtures.

Day 27 **Screenshots & video**
Capture screenshots & video evidence on failures.

Live Q&A 9 - Reporting & configuration review.

Day 28 **Annotations & tags**
Annotations, tags, organise & filter your suite.

Phase 06 - Reliability, Cross-Browser & Parallel Days 29-32

Kill flakiness and run fast across browsers and devices.

Day 29 **Auto-waiting & timeouts**
How auto-waiting works, configuring timeouts, hands-on demos.

Day 30 **Advanced debugging & browser args**
Debugging at the Playwright API level, Chrome browser args.

Live Q&A 10 - Waits, timeouts & browser tuning.

Day 31 **Hooks & global setup**
beforeEach / afterEach hooks, global setup & teardown.

Day 32 **Cross-browser, mobile & parallel**
Multi-browser runs, device emulation, parallelism & sharding.

Phase 07 - Data-Driven Testing & Page Objects Days 33-37

Parameterise everything and structure a maintainable framework.

Day 33 **Data-driven testing I**
tsconfig, static / constant data, parameterising with forEach.

[Live Q&A 11 - Hooks, parallel runs & data basics.](#)

Day 34 **Data-driven testing II**
Dynamic global data, environment-specific data, sensitive data.

Day 35 **Data-driven testing III**
Read data from CSV, helper functions, parameterised CSV runs, logger.

Day 36 **Page Object Model I**
POM concept, TypeScript classes, building a base page.

[Live Q&A 12 - Data-driven design & POM kickoff.](#)

Day 37 **Page Object Model II**
Implement POM, build tests with page objects, run E2E.

Phase 08 - API & End-to-End Days 38-40

Test APIs and tie UI + API into complete end-to-end journeys.

Day 38 **API testing I**
API overview, GET & POST examples, request context.

Day 39 **API testing II**
API + framework integration, Playwright & file helpers.

[Live Q&A 13 - Page objects & API testing.](#)

Day 40 **End-to-end integration**
Full E2E combining page objects, web UI and API together.

Phase 09 - AI, CI/CD & Graduation Days 41-45

The modern edge - AI agents, pipelines, and your launch into the field.

Day 41 **AI: Copilot & Playwright MCP**
GitHub Copilot setup & modes, Playwright MCP server in action.

Day 42**CI/CD with GitHub Actions**

YAML basics, GitHub Actions pipeline, Allure reports in CI.

[Live Q&A 14 - End-to-end, AI & continuous integration.](#)

Day 43**CI/CD with Jenkins**

Jenkins install, set up a pipeline, build & run it.

Day 44**Playwright Test Agents (AI)**

Planner, generator & healer agents - install & see them in action.

Day 45**Pro practices & graduation**

Safely upgrading Playwright, forking repos for fast setup, final quiz, next steps.

[Live Q&A 15 - Graduation - careers, portfolio review & what next.](#)

SELENIUM + JAVA

45 days - 45 min/day - 15 live Q&A - 9 phases - 16h+ lessons

BONUS - 1 month of Claude Pro, free. Use it with Cursor, MCP and the AI toolkit to generate, review and refine your Selenium tests.

Phase 01 - Orientation & Setup Days 1-3

The big picture, then a complete Java + Selenium toolchain.

- Day 1** **Welcome & the Selenium + Java big picture**
Course overview, materials, how to learn effectively, the Selenium WebDriver ecosystem, Java in Selenium.
- Day 2** **Install Java & Maven**
Install Java (Win/macOS), why Maven matters, install Maven (Win/macOS).
- Day 3** **IDE setup**
Java IDE options, set up IntelliJ IDEA, environment ready to code.

Live Q&A 1 - Setup & toolchain - get everyone running.

Phase 02 - Java for Testers Days 4-9

Just enough Java - done properly - to write real tests.

- Day 4** **Java I - first program**
Your first Java program, classes & methods.
- Day 5** **Java II - classes & methods**
Classes & methods homework, variables & data types.
- Day 6** **Java III - variables & parameters**
Variables & data types deep-dive, method parameters (+ variables homework).

Live Q&A 2 - Java basics - variables & methods.

- Day 7** **Java IV - returns & a calculator**
Method return values, build a simple calculator.
- Day 8** **Java V - JUnit basics**
Intro to JUnit & unit testing, write & run your first JUnit test.
- Day 9** **Java VI - consolidation**
Review, homework solutions & hands-on practice.

Live Q&A 3 - Java & JUnit - code review.

Phase 03 - Selenium Foundations Days 10-13

Drive a browser, and learn how the page is structured.

Day 10 **Meet WebDriver**
Dive into Selenium WebDriver, create a Maven project.

Day 11 **First browser automation**
Getting started with Selenium, running on Firefox.

Day 12 **HTML & the DOM**
HTML for automation, understanding the Document Object Model.

[Live Q&A 4 - WebDriver & HTML/DOM.](#)

Day 13 **Inspecting elements**
Element location in Selenium, dev-tools inspection exercises.

Phase 04 - Locators & WebElements Days 14-18

The make-or-break skill: finding elements reliably.

Day 14 **Locators I**
Comprehensive look at locators, the WebElement interface.

Day 15 **Locators II**
Simple locators in practice, efficient element-selection tools.

[Live Q&A 5 - Locator basics - find-it practice.](#)

Day 16 **Locators III**
Complex locators: XPath & CSS selectors.

Day 17 **Locators IV**
Troubleshooting & refining locators, best-practice strategies.

Day 18 **Locators V**
Homework: build locators (+ review), WebElement commands in action.

[Live Q&A 6 - XPath, CSS & WebElement commands.](#)

Phase 05 - Tests with TestNG Days 19-24

Write real, structured tests and practical login scenarios.

Day 19 **First tests I**
The app under test, a new Maven project, your first test class & method.

Day 20 **First tests II**
Implement steps (start the browser), intro to the TestNG framework.

Day 21 **First tests III**
Verifications & assertions, run tests with TestNG, debugging.

[Live Q&A 7 - First TestNG tests.](#)

Day 22 **Practical writing I**
Negative login testing, set up the test class.

Day 23 **Practical writing II**
Test for an incorrect username (homework + implementation).

Day 24 **Practical writing III**
Test for an incorrect password, avoiding false positives.

[Live Q&A 8 - Practical test writing.](#)

Phase 06 - Cross-Browser & TestNG Suites Days 25-28

Run everywhere, and organise tests into suites.

Day 25 **Cross-browser I**
Cross-browser concepts, Firefox via Selenium Manager.

Day 26 **Cross-browser II**
Manually configure Edge (Windows) & Safari (Mac).

Day 27 **TestNG suites I**
Suites theory, build & run a full regression suite.

[Live Q&A 9 - Cross-browser & suites.](#)

Day 28 **TestNG suites II**
Create & run a smoke-test suite (homework).

Phase 07 - TestNG Mastery & Debugging Days 29-33

Get advanced with TestNG, then debug like a pro.

Day 29 **TestNG power I**
Deep dive & docs, reading reports, consolidating login tests.

Day 30 **TestNG power II**
Groups, suites & selective execution, TestNG parameters.

[Live Q&A 10 - TestNG groups & parameters.](#)

Day 31 **TestNG power III**
Before/after annotations, dynamic browser selection & flexibility.

Day 32 **Debugging I**
Debugging essentials, navigating IDE debug features.

Day 33 **Debugging II**
Logs for debugging, hands-on debugging in IntelliJ IDEA.

[Live Q&A 11 - TestNG flexibility & debugging.](#)

Phase 08 - Waits, Exceptions & Page Object Model Days 34-41

Beat flaky tests, then build a clean, maintainable framework.

Day 34 **Waits & exceptions I**
WebDriver exceptions overview, NoSuchElementException (reproduce & debug).

Day 35 **Waits & exceptions II**
Waits theory, resolve NoSuchElementException with implicit & explicit waits.

Day 36 **Waits & exceptions III**
TimeoutException, ElementNotInteractableException.

[Live Q&A 12 - Waits & exceptions - part 1.](#)

Day 37 **Waits & exceptions IV**
InvalidElementState & StaleElementReference exceptions.

Day 38 **POM I**
POM fundamentals, build a login page object, successful-login page.

Day 39 **POM II**
Base page class, inheritance, SuccessfulLoginPage.

[Live Q&A 13 - Exceptions & POM kickoff.](#)

Day 40 **POM III**
Convert positive tests to POM, refactor negative tests.

Day 41 **POM IV**
Homework: POM for the exceptions page (solutions), POM best practices.

Phase 09 - AI-Powered Selenium, Career & Graduation Days 42-45

Add the AI edge, then launch your automation career.

Day 42 **AI-Powered Selenium I**
The AI toolkit, set up Cursor, context files (teach AI your project).

[Live Q&A 14 - POM & AI setup.](#)

Day 43**AI-Powered Selenium II**

MCP (AI eyes on the browser), rules (code standards), skills (repeatable AI workflows).

Day 44**AI-Powered Selenium III**

Build tests for a new page with AI, review & refine your stack (knowledge check).

Day 45**Career & graduation**

Portfolio, resume, job listings, interview prep, networking, final wrap-up.

Live Q&A 15 - Graduation - careers, portfolio review & what next.

Ready to start your 45 days?

Scan the QR on the cover, or visit learnwithpalla.com and tap **Chat on WhatsApp**. Next batch is filling up - reserve your seat.